

SEQUENCE LISTING

<110> Ault-Riche, Dana
Kumble, Krishnanand
Schulz, Rainer
Schulz, Kenneth

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 35 40 45
 Ile Asp Arg Lys Ser Gly Asp Phe Asp Thr Phe Arg Arg Trp Leu Val
 50 55 60
 Val Asp Glu Val Thr Gln Pro Thr Lys Glu Ile Thr Leu Glu Ala Ala
 65 70 75 80
 Arg Tyr Glu Asp Glu Ser Leu Asn Leu Gly Asp Tyr Val Glu Asp Gln
 85 90 95
 Ile Glu Ser Val Thr Phe Asp Arg Ile Thr Thr Gln Thr Ala Lys Gln
 100 105 110
 Val Ile Val Gln Lys Val Arg Glu Ala Glu Arg Ala Met Val Val Asp
 115 120 125
 Gln Phe Arg Glu His Glu Gly Glu Ile Ile Thr Gly Val Val Lys Lys
 130 135 140
 Val Asn Arg Asp Asn Ile Ser Leu Asp Leu Gly Asn Asn Ala Glu Ala
 145 150 155 160
 Val Ile Leu Arg Glu Asp Met Leu Pro Arg Glu Asn Phe Arg Pro Gly
 165 170 175
 Asp Arg Val Arg Gly Val Leu Tyr Ser Val Arg Pro Glu Ala Arg Gly
 180 185 190
 Ala Gln Leu Phe Val Thr Arg Ser Lys Pro Glu Met Leu Ile Glu Leu
 195 200 205
 Phe Arg Ile Glu Val Pro Glu Ile Gly Glu Glu Val Ile Glu Ile Lys
 210 215 220
 Ala Ala Ala Arg Asp Pro Gly Ser Arg Ala Lys Ile Ala Val Lys Thr
 225 230 235 240
 Asn Asp Lys Arg Ile Asp Pro Val Gly Ala Cys Val Gly Met Arg Gly
 245 250 255
 Ala Arg Val Gln Ala Val Ser Thr Glu Leu Gly Gly Glu Arg Ile Asp
 260 265 270
 Ile Val Leu Trp Asp Asp Asn Pro Ala Gln Phe Val Ile Asn Ala Met
 275 280 285
 Ala Pro Ala Asp Val Ala Ser Ile Val Val Asp Glu Asp Lys His Thr
 290 295 300
 Met Asp Ile Ala Val Glu Ala Gly Asn Leu Ala Gln Ala Ile Gly Arg
 305 310 315 320
 Asn Gly Gln Asn Val Arg Leu Ala Ser Gln Leu Ser Gly Trp Glu Leu
 325 330 335
 Asn Val Met Thr Val Asp Asp Leu Gln Ala Lys His Gln Ala Glu Ala
 340 345 350
 His Ala Ala Ile Asp Thr Phe Thr Lys Tyr Leu Asp Ile Asp Glu Asp
 355 360 365
 Phe Ala Thr Val Leu Val Glu Glu Gly Phe Ser Thr Leu Glu Glu Leu
 370 375 380
 Ala Tyr Val Pro Met Lys Glu Leu Leu Glu Ile Glu Gly Leu Asp Glu
 385 390 395 400
 Pro Thr Val Glu Ala Leu Arg Glu Arg Ala Lys Asn Ala Leu Ala Thr
 405 410 415
 Ile Ala Gln Ala Gln Glu Glu Ser Leu Gly Asp Asn Lys Pro Ala Asp
 420 425 430
 Asp Leu Leu Asn Leu Glu Gly Val Asp Arg Asp Leu Ala Phe Lys Leu
 435 440 445
 Ala Ala Arg Gly Val Cys Thr Leu Glu Asp Leu Ala Glu Gln Gly Ile
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 35 40 45
 Val Gly Lys Lys Phe Glu Lys Asp Thr Gly Ile Lys Val Thr Val Glu
 50 55 60
 His Pro Asp Lys Leu Glu Lys Phe Pro Gln Val Ala Ala Thr Gly
 65 70 75 80
 Asp Gly Pro Asp Ile Ile Phe Trp Ala His Asp Arg Phe Gly Gly Tyr
 85 90 95
 Ala Gln Ser Gly Leu Leu Ala Glu Ile Thr Pro Asp Lys Ala Phe Gln
 100 105 110
 Asp Lys Leu Tyr Pro Phe Thr Trp Asp Ala Val Arg Tyr Asn Gly Lys
 115 120 125
 Leu Ile Ala Tyr Pro Ile Ala Val Glu Ala Leu Ser Leu Ile Tyr Asn
 130 135 140
 Lys Asp Leu Leu Pro Asn Pro Pro Lys Thr Trp Glu Glu Ile Pro Ala
 145 150 155 160
 Leu Asp Lys Glu Leu Lys Ala Lys Gly Lys Ser Ala Leu Met Phe Asn
 165 170 175
 Leu Gln Glu Pro Tyr Phe Thr Trp Pro Leu Ile Ala Ala Asp Gly Gly
 180 185 190
 Tyr Ala Phe Lys Tyr Glu Asn Gly Lys Tyr Asp Ile Lys Asp Val Gly
 195 200 205
 Val Asp Asn Ala Gly Ala Lys Ala Gly Leu Thr Phe Leu Val Asp Leu
 210 215 220
 Ile Lys Asn Lys His Met Asn Ala Asp Thr Asp Tyr Ser Ile Ala Glu
 225 230 235 240
 Ala Ala Phe Asn Lys Gly Glu Thr Ala Met Thr Ile Asn Gly Pro Trp
 245 250 255
 Ala Trp Ser Asn Ile Asp Thr Ser Lys Val Asn Tyr Gly Val Thr Val
 260 265 270
 Leu Pro Thr Phe Lys Gly Gln Pro Ser Lys Pro Phe Val Gly Val Leu
 275 280 285
 Ser Ala Gly Ile Asn Ala Ala Ser Pro Asn Lys Glu Leu Ala Lys Glu
 290 295 300
 Phe Leu Glu Asn Tyr Leu Leu Thr Asp Glu Gly Leu Glu Ala Val Asn
 305 310 315 320
 Lys Asp Lys Pro Leu Gly Ala Val Ala Leu Lys Ser Tyr Glu Glu
 325 330 335
 Leu Ala Lys Asp Pro Arg Ile Ala Ala Thr Met Glu Asn Ala Gln Lys
 340 345 350
 Gly Glu Ile Met Pro Asn Ile Pro Gln Met Ser Ala Phe Trp Tyr Ala
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 35 40 45
 Leu Ser Ile Leu Glu Glu Gln Gln Arg Gln Gln Gln Gln Gln Gln
 50 55 60
 Gln Gln Gln Gln Gln Gln Ala Val Ala Thr Ala Ala Ala Ser
 65 70 75 80
 Val Gln Gln Ser Thr Ser Gln Gln Pro Thr Gln Gly Ala Ser Gly Gln
 85 90 95
 Thr Pro Gln Leu Phe His Ser Gln Thr Leu Thr Thr Ala Pro Leu Pro
 100 105 110
 Gly Thr Thr Pro Leu Tyr Pro Ser Pro Met Thr Pro Met Thr Pro Ile
 115 120 125
 Thr Pro Ala Thr Pro Ala Ser Glu Ser Ser Gly Ile Val Pro Gln Leu
 130 135 140
 Gln Asn Ile Val Ser Thr Val Asn Leu Gly Cys Lys Leu Asp Leu Lys
 145 150 155 160
 Thr Ile Ala Leu Arg Ala Arg Asn Ala Glu Tyr Asn Pro Lys Arg Phe
 165 170 175
 Ala Ala Val Ile Met Arg Ile Arg Glu Pro Arg Thr Thr Ala Leu Ile
 180 185 190
 Phe Ser Ser Gly Lys Met Val Cys Thr Gly Ala Lys Ser Glu Glu Gln
 195 200 205
 Ser Arg Leu Ala Ala Arg Lys Tyr Ala Arg Val Val Gln Lys Leu Gly
 210 215 220
 Phe Pro Ala Lys Phe Leu Asp Phe Lys Ile Gln Asn Met Val Gly Ser
 225 230 235 240
 Cys Asp Val Lys Phe Pro Ile Arg Leu Glu Gly Leu Val Leu Thr His
 245 250 255
 Gln Gln Phe Ser Ser Tyr Glu Pro Glu Leu Phe Pro Gly Leu Ile Tyr
 260 265 270
 Arg Met Ile Lys Pro Arg Ile Val Leu Leu Ile Phe Val Ser Gly Lys
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 Glu Asn Ile Tyr Pro Ile Leu Lys Gly Phe Arg Lys Thr Thr
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 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Cys Asp Lys
 35 40 45

Tyr Ser Asn Val Val Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
 50 55 60
 Val Ala Ala Asp Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Tyr
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 Lys Lys Gly Gln Lys Val Gly Glu Ser Gly Ala Asn Lys Glu Lys
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 35 40 45
 Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe
 50 55 60
 Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln
 65 70 75 80
 His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
 85 90 95
 Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
 100 105 110
 Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
 115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
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 Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
 145 150 155 160
 Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val
 165 170 175
 Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
 180 185 190
 Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
 195 200 205
 Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val
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 Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
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 35 40 45
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 50 55 60
 Glu Gly Val Ala Ile Met Gln Tyr Leu Ala Asp Ser Val Pro Asp Arg
 65 70 75 80
 Gln Leu Leu Ala Pro Val Asn Ser Ile Ser Arg Tyr Lys Thr Ile Glu
 85 90 95
 Trp Leu Asn Tyr Ile Ala Thr Glu Leu His Lys Gly Phe Thr Pro Leu
 100 105 110
 Phe Arg Pro Asp Thr Pro Glu Glu Tyr Lys Ser Thr Val Arg Ala Gln
 115 120 125
 Leu Glu Lys Lys Leu Gln Tyr Val Asn Glu Ala Leu Lys Asp Glu His
 130 135 140
 Trp Ile Cys Gly Gln Arg Phe Thr Ile Ala Asp Ala Tyr Leu Phe Thr
 145 150 155 160
 Val Leu Arg Trp Ala Tyr Ala Val Lys Leu Asn Leu Glu Gly Leu Glu
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